

Nickel-based non-crystal alloy powder with broad super-cooled liquid region and method for preparing the same

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Abstract of TW458828B

The present invention relates to a method for preparing a nickel-based non-crystal alloy, which comprises using a high energy ball mill to perform a mechanical alloying treatment on a mixture powder of pure nickel, zirconium, titanium, aluminum, and tin, thereby forming a nickel-based amorphous alloy powder with a broad super-cooled liquid region and having a chemical formula of $\text{Zr}_a\text{Ti}_b\text{Al}_c\text{Sn}_d$ (37% $\leq a \leq$ 57%, 20% $\leq b \leq$ 30%, 17% $\leq c \leq$ 23%, 5% $\leq d \leq$ 10%, 1% $\leq e \leq$ 3%).

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